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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Thumpudi Naveen and Anil M. Murching  
Serial No. : 09/495,597  
Filed : February 1, 2000  
For : Normalized Bitmap Representation of Visual Object's Shape for  
Search/Query/Filtering Applications  
Examiner : Not Known Art Unit : 2782

STATEMENT UNDER 37 CFR 3.73(b), REVOCATION OF POWER OF ATTORNEY,  
APPOINTMENT OF PRINCIPAL ATTORNEYS and CHANGE OF ADDRESS

Hon. Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

GRASS VALLEY (U.S.) Inc. is the assignee of the entire right, title and interest in the above-identified application, by virtue of an assignment by the inventor(s). The assignee has reviewed the assignment; and, to the best of the assignee's knowledge and belief, title is in the assignee.

The assignee hereby revokes the power of attorney previously granted to Francis I. Gray, Reg. No., 27,788, WITHOUT REVOKING ANY OTHER POWER OF ATTORNEY PREVIOUSLY GRANTED, and appoints Ronald H. Kurdyla, Reg. No. 26,932; Joel M. Fogelson, Reg. No. 43,613; Jeffrey M. Navon, Reg. No. 32,711; Guy Eriksen, Reg. No. 41,736 and Francis A. Davenport, Reg. No. 36,316 as principal attorneys, with full power to prosecute the above-identified application and to transact all business in the Patent and Trademark Office in connection therewith.

PLEASE ADDRESS ALL FUTURE COMMUNICATIONS TO:

Joseph S. Tripoli, Patent Operations  
Thomson multimedia Licensing Inc.  
PO Box 5312  
Princeton, NJ 08543-5312

The undersigned practitioner is empowered to sign in behalf of the assignee by virtue of a general power of attorney granted by the assignee, a copy of which is attached hereto.

Respectfully submitted,

August 14, 2002  
Date

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By:

Joseph S. Tripoli  
Joseph S. Tripoli  
Senior Vice President

Thomson multimedia Licensing, Inc.  
Reg. No. 26,040  
Tel. No. 609-734-6834

**ASSIGNMENT DECLARATION**

#PP248

WHEREAS, I/WE THUMPUDI NAVEEN residing at 1406 156<sup>th</sup> Avenue N.E., #1231,  
Redmond, Washington 98052; and ANIL M. MURCHING residing at 930 S.W. 163<sup>rd</sup>  
Avenue, #335, Beaverton, Oregon 97006, have invented certain new and useful  
improvements in NORMALIZED BITMAP REPRESENTATION OF VISUAL OBJECT'S  
SHAPE FOR SEARCH/QUERY/FILTERING APPLICATIONS

for which I/we:

- X have executed an application for Letters Patent of the United States of even date herewith;
- X have filed an application for Letters Patent of the United States on February 1, 1999 under Serial No. 60/118,207; and

Grass Valley (U.S.) Inc., (hereinafter called Assignee), a Delaware corporation whose address is 400 Providence Mine Road, Nevada City, California 95959 desires to acquire my/our entire right, title and interest in and to said improvements and said application;

For good and valuable consideration, the receipt and sufficiency of which is acknowledged, I/we hereby assign and transfer to Assignee my/our entire right, title and interest in and to said improvements throughout the world, and in and to said application, including any continuation(s) or division(s) thereof, and any Letters Patent or other protective right(s) that may be granted therefor in the United States and in any and all foreign countries, including the right to file in foreign countries applications for protection of said improvements claiming priority from said applications.

I/We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and corresponding officials in any and all foreign countries to issue said Letters Patent(s) or protective right(s) to Assignee as the assignee of my/our entire right, title and interest therein, for the sole use and benefit of Assignee.

I/We hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed, and will not execute, any agreement in conflict herewith.

I/We hereby agree to communicate to Assignee or its legal representatives any facts known to me/us relating to said improvements, to testify as to the same in any interference or legal proceeding concerned therewith, to execute promptly and deliver to Assignee or its legal representatives upon request any and all papers, instruments, declarations and affidavits required to apply for, obtain, maintain and enforce Letters Patent(s) or other protective right(s) for said improvements throughout the world, and generally to do everything necessary or desirable to vest and perfect title thereto in Assignee.

This assignment is binding upon me/us and my/our heirs, successors and personal representatives, and shall inure to the benefit of Assignee, its successors, assigns and nominees.

IN TESTIMONY WHEREOF, I/We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date: 1/13/2000

Signature: Naveen  
(Thumpudi Naveen - Inventor)

Witnessed by: Shalini Thontamethur Shalini 1/13/2000  
(Print Name) Signature Date

Date: 01/03/2000 Signature: Anil Murching  
(Anil M. Murching - Inventor)

Witnessed by: NORTHON RODRIGUES NORTHON RODRIGUES 1/3/2000  
(Print Name) Signature Date

**DECLARATION FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: \_\_\_\_\_

**NORMALIZED BITMAP REPRESENTATION OF VISUAL OBJECT'S SHAPE FOR SEARCH/**  
**QUERY/FILTERING APPLICATIONS**

the specification of which:

(check one) X is attached hereto.

\_\_\_\_\_ was filed on \_\_\_\_\_, 19\_\_\_\_ as Application Serial No. \_\_\_\_\_  
and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I have identified below any foreign application(s) for patent or inventor's certificate from which I claim foreign priority benefits under Title 35, United States Code, Section 119 and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	_____ Yes	_____ No
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	_____ Yes	_____ No

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of the above-identified specification is not disclosed in the prior United States application(s) in the matter required by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

<u>60/118,207</u> (Application Serial No.)	<u>February 1, 1999</u> (Filing Date)	<u>Pending provisional</u> (Status-patented, pending, abandoned)
_____ (Application Serial No.)	_____ (Filing Date)	_____ (Status-patented, pending, abandoned)

I hereby appoint the following attorney to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Francis I. Gray, Reg. No. 27,788 at telephone no. (503) 627-7261, P.O. Box 500, Delivery Station 50-LAW, Beaverton, Oregon 97077.

Address all telephone calls to Peter D. Symes at Telephone no. (530) 478-3437.

Address all correspondence to Peter D. Symes, Manager, Advanced Technology, Grass Valley (U.S.) Inc., P.O. Box 599000, 400 Providence Mine Road, Nevada City, California 95959-7900.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of **sole or first** inventor THUMPUDI NAVEEN

Inventor's signature Naveen Date 1/13/2000

Residence Redmond, Washington Citizenship India

Address 1406 156<sup>th</sup> Avenue NE #H231 # PP248  
Redmond, Washington 98052

Full name of **second** inventor ANIL M. MURCHING

Inventor's signature Anil Murching Date 01/02/2000

Residence Beaverton, Oregon Citizenship India

Address 930 S.W. 163<sup>rd</sup> Avenue, #335  
Beaverton, Oregon 97006



**POWER OF ATTORNEY  
GRASS VALLEY (U.S.) Inc.**

**GRASS VALLEY (U.S.) Inc.**  
400 Providence Mine Road  
Nevada City, California 95959  
United States of America

does hereby grant

Joseph S. Tripoli  
Senior Vice President  
Thomson multimedia Licensing Inc.  
Two Independence Way  
Princeton, New Jersey 08540  
United States of America

a revocable, non-exclusive and delegable power of attorney to act for us (including the signing of requisite documents) in proceedings concerning patents and applications for patents, including international and other multi-country patents and applications for patents, in our name in the Patent Offices in all countries worldwide from March 4, 2002.

DATED this 24<sup>th</sup> day of May, 2002.

SIGNED

*Timothy E. Thorsteinson*

Name: Timothy E. Thorsteinson  
Title: President

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WITNESS

*Jocelyne Pletto*  
Jocelyne Pletto

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